

SECTION 08620—UNIT SKYLIGHTS

Tandem Skylight System (TSCM)

PART 1: General

1.01 Section Includes:

A. Scope:

This section includes everything necessary for and incidental to the execution and completion of the acrylic/polycarbonate domed skylight system work as shown on the drawings and specified herein.

B. Work Included:

Work included, and is limited to, the skylight materials only and includes the following:

1. Single or double domed acrylic and/or polycarbonate unit skylight system complete with curb mount frame for installation on flashed curb by others.

C. Related Work:

1. Section _____ roofing.
2. Section _____ flashing and sheet metal.
3. Section _____ final cleaning.

1.02 References:

American Society for Testing and Materials (ASTM)

1.03 Performance Criteria:

A. Uniform Load:

Acrylic and/or polycarbonate unit skylights must meet the requirements of uniform load test ASTM E330 that requires glazing to withstand a positive and negative test pressure of 60PSF.

B. Air Infiltration:

Acrylic and/or polycarbonate unit skylights must meet the requirements of ASTM E283 that allows a maximum air infiltration of 0.06 CFM of the total glazed surface area.

C. Water Infiltration:

Acrylic and/or polycarbonate unit skylights must meet the requirements of ASTM E547/E331 that allows for no water infiltration at a test pressure of 12PSF.

1.04 Submittals:

A. Shop Drawings:

Submit _____ copies of manufacturers standard approval sheet for architects review and approval.

1.05 Warranty:

Skylight manufacturer shall provide a written warranty against defects in materials and workmanship for a period of five (5) years from date of installation.

1.06 Manufacturer:

Non-thermally broken Tandem System Curb Mount skylight system shall be American Skylites model TSCM (standard domes) or TSCM-PYR (pyramid domes) as manufactured by American Skylites, Fort Worth, Texas, (1-800-772-7401) sizes as shown on drawings.

1.07 Alternates:

Alternate manufacturers may not be considered without prior approval. Alternate manufacturers must have a minimum ten (10) years experience in the design and manufacture of skylights and/or skylight systems, must have similar complexity of projects completed within the past five (5) years and must submit drawings for architects review.

Part 2: Products:

2.01 Materials:

A. Curb Mount Frame:

Curb mount frame shall be fabricated from 6063-T5/T6 aluminum extrusion with a minimum thickness of .060. Curb mount frame shall have an integral condensation gutter and weep holes for sufficient drainage to the exterior. All corners shall be welded using the heliarc process.

B. Mullions:

Mullions shall be fabricated from 6063-T5/T6 aluminum extrusion with a minimum thickness of .060. Mullions shall have an exterior compression mullion cap for air and water tight seal with a minimum thickness of .060. All corners shall be welded using the heliarc process.

C. Acrylic and/or Polycarbonate Domes:

Acrylic and/or polycarbonate domes shall be clear, #2447 White, #2412 Bronze, Clear/Clear, Clear/#2447 White, or #2412 Bronze/Clear. Domes shall be secured to frame with a fully welded retainer cap, minimum thickness of .060. Custom dome colors and individual dome thickness as selected by architect.

D. Aluminum Finish:

All exposed aluminum to be Mill Finish, Bronze, White, Clear Anodized, Bronze Anodized, or Custom Color, as selected by architect.

E. Glazing Gaskets and Sealants:

All glazing to be separated from frame by a continuous extruded black Santoprene gasket.

F. Fasteners:

All screws and fasteners used in the factory assembly process shall be Stainless Steel. All fasteners and screws used for securing skylight to structure shall be by others.

2.02 Assembly:

All skylights shall be factory assembled* and factory glazed. (*partial field assembly required on larger units)

Part 3 Installation:

3.01 Site Inspection:

Installer shall notify general contractor/project manager of any structural or dimensional deficiencies immediately. No work shall proceed without the correction of all deficiencies or written authorization is given to proceed.

3.02 Installation:

Skylight shall be installed in strict accordance with manufacturers installation drawings and instructions. Any deviation shall only be through written authorization from the architect. **TSCM and TSCM-PYR units must be installed with mullion at a minimum 1/12 pitch.**

A. Sealants:

No sealants shall be applied to aluminum if temperature is below 32 degrees F.

3.03 Protection:

Protection of skylights during construction shall be the responsibility of the general contractor/project manager.

3.04 Cleaning:

A. General Cleaning:

Installer shall remove all protective coverings from frames and/or domes and shall leave installation free from heavy debris and/or sealant markings.

B. Final Cleaning:

Final cleaning in accordance with manufacturers recommendations shall be by the general contractor/project manager.

End of Section